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Terms	Documents
(L1 and (medical with cost))	1

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L2	(L1 and (medical with cost))	1	L2
L1	706/12.ccls.	233	L1

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20030018595 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 1   File: PGPB   Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018595
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030018595 A1

TITLE: Machine learning method

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chen, Hung-Han	Watertown	MA	US	
Hunter, Lawrence	Denver	CO	US	
Poteat, Harry Towsley	Boston	MA	US	
Snow, Kristin Kendall	Somerville	MA	US	

US-CL-CURRENT: 706/12

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
(L1 and (medical with cost))	1

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Refine Search

Search Results -

Terms	Documents
L5 and rules and range and threshold and selecting	7

Database:

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Set Name side by side	**Query**	**Hit Count**	**Set Name** result set
L6	L5 and rules and range and threshold and selecting	7	L6
L5	((medical with cost) and (training with data))	107	L5
L4	L3 and rules and range and threshold and selecting	96	L4
L3	((medical with cost) and (training data))	3011	L3
L2	(L1 and (medical with cost))	1	L2
L1	706/12.ccls.	233	L1

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 6306087 B1

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L6: Entry 1 of 7 File: USPT Oct 23, 2001

US-PAT-NO: 6306087
DOCUMENT-IDENTIFIER: US 6306087 B1

TITLE: Computer assisted methods for diagnosing diseases

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barnhill; Stephen D.	Savannah	GA		
Zhang; Zhen	Mt. Pleasant	SC		

US-CL-CURRENT: 600/300; 128/924

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 6301571 B1

L6: Entry 2 of 7 File: USPT Oct 9, 2001

US-PAT-NO: 6301571
DOCUMENT-IDENTIFIER: US 6301571 B1

TITLE: Method for interacting with a test subject with respect to knowledge and functionality

DATE-ISSUED: October 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tatsuoka; Curtis M.	Trenton	NJ	08638	

US-CL-CURRENT: 706/45; 434/322, 705/7, 706/50, 715/501.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 3. Document ID: US 6260033 B1

L6: Entry 3 of 7 File: USPT Jul 10, 2001

US-PAT-NO: 6260033
DOCUMENT-IDENTIFIER: US 6260033 B1

TITLE: Method for remediation based on knowledge and/or functionality

DATE-ISSUED: July 10, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tatsuoka; Curtis M.	Trenton	NJ	08638	

US-CL-CURRENT: 706/45; 434/322, 705/7, 706/50, 715/501.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 6248063 B1

L6: Entry 4 of 7 File: USPT Jun 19, 2001

US-PAT-NO: 6248063
DOCUMENT-IDENTIFIER: US 6248063 B1

TITLE: Computer assisted methods for diagnosing diseases

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barnhill; Stephen D.	Savannah	GA		
Zhang; Zhen	Mt. Pleasant	SC		

US-CL-CURRENT: 600/300; 128/924, 706/21

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 5. Document ID: US 5855011 A

L6: Entry 5 of 7 File: USPT Dec 29, 1998

US-PAT-NO: 5855011
DOCUMENT-IDENTIFIER: US 5855011 A

TITLE: Method for classifying test subjects in knowledge and functionality states

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tatsuoka; Curtis M.	Trenton	NJ	08638	

US-CL-CURRENT: 706/45; 706/52

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 6. Document ID: US 5799101 A

L6: Entry 6 of 7 File: USPT Aug 25, 1998

US-PAT-NO: 5799101
DOCUMENT-IDENTIFIER: US 5799101 A

TITLE: Method and apparatus for highly efficient computer aided screening

DATE-ISSUED: August 25, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Shih-Jong J.	Bellevue	WA		
Oh; Seho	Mukilteo	WA		
Patten; Stanley F.	Issaquah	WA		
Nelson; Alan C.	Redmond	WA		
Nelson; Larry A.	Bellevue	WA		

US-CL-CURRENT: 382/133; 128/922, 356/42, 382/134

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 7. Document ID: US 5769074 A

L6: Entry 7 of 7 File: USPT Jun 23, 1998

US-PAT-NO: 5769074
DOCUMENT-IDENTIFIER: US 5769074 A
**** See image for Certificate of Correction ****

TITLE: Computer assisted methods for diagnosing diseases

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barnhill; Stephen D.	Savannah	GA		
Zhang; Zhen	Mt. Pleasant	SC		

US-CL-CURRENT: 600/300; 128/924

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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Terms	Documents
L5 and rules and range and threshold and selecting	7

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Terms	Documents
L6 and neighbors	0

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Search: L7

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L6	L5 and rules and range and threshold and selecting	7	L6
L5	((medical with cost) and (training with data))	107	L5
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L3	((medical with cost) and (training data))	3011	L3
L2	(L1 and (medical with cost))	1	L2
L1	706/12.ccls.	233	L1

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Internet Engineering Task Force

(The IETF Secretariat, run by The Corporation for National Research Initiatives with funding from the US government, maintains an index of Internet-Drafts.)

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PCI Specifications (username: uspto; password: pat222)

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Pentland, A.;
Computer , Volume: 37 , Issue: 5 , May 2004
Pages:42 - 49

[Abstract] [PDF Full-Text (1044 KB)] **IEEE JNL**

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2 **A new research challenge: persuasive technology to motivate healt aging**
Intille, S.S.;
Information Technology in Biomedicine, IEEE Transactions on , Volume: 8 , Is 3 , Sept. 2004
Pages:235 - 237

[Abstract] [PDF Full-Text (64 KB)] **IEEE JNL**

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3 **Economic implications of health care policy for medical technology**
Doherty, N.J.G.;
Technology and Society Magazine, IEEE , Volume: 7 , Issue: 2 , June 1988
Pages:18 - 23

[Abstract] [PDF Full-Text (636 KB)] **IEEE JNL**

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4 **Can technology reduce health care costs?**
Wells, P.N.T.;
Engineering Management Journal , Volume: 12 , Issue: 4 , Aug. 2002
Pages:194 - 200

[Abstract] [PDF Full-Text (976 KB)] **IEE JNL**

5 **Robust regression under asymmetric or/and non-constant variance by simultaneously training conditional quantiles**
Takeuchi, I.; Yamanaka, N.; Furuhashi, T.;
Neural Networks, 2003. Proceedings of the International Joint Conference on , Volume: 3 , 20-24 July 2003
Pages:1729 - 1734 vol.3

[Abstract] [PDF Full-Text (464 KB)] **IEEE CNF**

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6 **The long-term adoption of speech recognition in medical application**
Grasso, M.A.;
Computer-Based Medical Systems, 2003. Proceedings. 16th IEEE Symposium
27 June 2003
Pages:257 - 262

[Abstract] [PDF Full-Text (220 KB)] **IEEE CNF**

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7 **The study of medical costs with intelligent information systems**
Riano, D.; Prado, S.;
Computer-Based Medical Systems, 2002. (CBMS 2002). Proceedings of the 15
IEEE Symposium on , 4-7 June 2002
Pages:343 - 346

[Abstract] [PDF Full-Text (274 KB)] **IEEE CNF**

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8 **Introduction of new medical technologies: an international and ethi perspective**
Saha, S.; Saha, P.S.;
Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th A
International Conference of the IEEE , Volume: 6 , 29 Oct.-1 Nov. 1998
Pages:3357 - 3358 vol.6

[Abstract] [PDF Full-Text (188 KB)] **IEEE CNF**

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9 **A paradigm shift in systems thinking for diagnostic imaging**
Wickizer, B.;
Computer-Based Medical Systems, 1998. Proceedings. 11th IEEE Symposium on , 12-14 June 1998
Pages:55 - 59

[Abstract] [PDF Full-Text (116 KB)] **IEEE CNF**

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10 **Cardiac defibrillation**
Smith, W.M.;
Engineering in Medicine and Biology Society, 1995. IEEE 17th Annual Conference , Volume: 1 , 20-23 Sept. 1995
Pages:249 - 250 vol.1

[Abstract] [PDF Full-Text (272 KB)] **IEEE CNF**

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11 **Visual fidelity of reconstructed radiographic images using wavelet transform coding and JPEG**
Muyshondt, R.A.; Mitra, S.;

Computer-Based Medical Systems, 1995., Proceedings of the Eighth IEEE Symposium on , 9-10 June 1995
Pages:196 - 203

[Abstract] [PDF Full-Text (412 KB)] **IEEE CNF**

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12 **Development of a low-cost medical image processing system**
Ying Jun Zhao; Jia Rui Lin;
Engineering in Medicine and Biology Society, 1988. Proceedings of the Annual International Conference of the IEEE , 4-7 Nov. 1988
Pages:495 - 496 vol.1

[Abstract] [PDF Full-Text (140 KB)] **IEEE CNF**

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13 **PhiSAS: a low-cost medical system for the observation of respiratoi dysfunction**
Brown, A.S.; Harvey, D.M.; Jamieson, G.; Graham, D.R.;
Appropriate Medical Technology for Developing Countries (Ref. No. 2002/057) Seminar on , 6 Feb. 2002
Pages:10/1 - 10/5

[Abstract] [PDF Full-Text (495 KB)] **IEE CNF**

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14 **Technology in medicine: too much too soon?**
Fitzgerald, K.;
Spectrum, IEEE , Volume: 26 , Issue: 12 , Dec. 1989
Pages:24 - 29

[Abstract] [PDF Full-Text (824 KB)] **IEEE JNL**

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15 **Risk management [medical devices]**
Bartoo, G.;
Engineering in Medicine and Biology Magazine, IEEE , Volume: 22 , Issue: 4 , Aug. 2003
Pages:166 - 172

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Engineering Management Journal , Volume: 12 , Issue: 4 , Aug. 2002
Pages:194 - 200

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4 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights
Eric V. Siegel, Kathleen R. McKeown
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Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

5 Special issue on learning from imbalanced datasets: Minority report in fraud detection: classification of skewed data
Clifton Phua, Damminda Alahakoon, Vincent Lee
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This paper proposes an innovative fraud detection method, built upon existing fraud detection research and *Minority Report*, to deal with the data mining problem of skewed data distributions. This method uses backpropagation (BP), together with naive Bayesian (NB) and C4.5 algorithms, on data partitions derived from minority oversampling with replacement. Its originality lies in the use of a single meta-classifier (stacking) to choose the best base classifiers, and then combine these base ...

Keywords: fraud detection, meta-learning, multiple classifier systems

6 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus
Jim Warren
January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface**, Volume 23 Issue 5
Full text available: pdf(843.80 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms, review

The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

7 Examining alternative End-Stage Renal Disease (ESRD) therapies through simulation
Stephen D. Roberts, Thomas L. Gross, Douglas R. Maxwell
March 1979 **Proceedings of the 12th annual symposium on Simulation**
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, index terms

To examine the costs and effects of alternative treatments for End-Stage Renal Disease

(ESRD), we constructed a simulation model which estimates patient survival and lifetime cost for those with ESRD. The model, written in the INS simulation language, considers home and center hemodialysis as well as live related and cadaver donor transplantation. After the model was validated, the cost per life year gained for each therapy was computed. Center hemodialysis was found to have the poorest cos ...

8 98¢/Mflops/s ultra-large-scale neural-network training on a pIII cluster
Douglas A. Aberdeen, Jonathan Baxter, Robert Edwards
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: pdf(215.33 KB) Publisher Site
Additional Information: full citation, abstract, references, citings, index terms

Artificial neural networks with millions of adjustable parameters and a similar number of training examples are a potential solution for difficult, large-scale pattern recognition problems in areas such as speech and face recognition, classification of large volumes of web data and finance. The bottleneck is that neural network training involves iterative gradient descent and is extremely computationally intensive. In this paper we present a technique for distributed training of Ultra Large ...

Keywords: neural-network, Linux cluster, matrix-multiply

9 May I interrupt?: BusyBody: creating and fielding personalized models of the cost of interruption
Eric Horvitz, Paul Koch, Johnson Apacible
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**
Full text available: pdf(145.02 KB) Additional Information: full citation, abstract, references, index terms

Interest has been growing in opportunities to build and deploy statistical models that can infer a computer user's current interruptability from computer activity and relevant contextual information. We describe a system that intermittently asks users to assess their perceived interruptability during a training phase and that builds decision-theoretic models with the ability to predict the cost of interrupting the user. The models are used at run-time to compute the expected cost of interrupt ...

Keywords: cost of interruption, models of attention, notification systems

10 Man-machine communications in the biological-medical research environment
William E. Farley, Alfred H. Pulido, Tate M. Minckler, Lee D. Cady
January 1966 **Proceedings of the 1966 21st national conference**
Full text available: pdf(297.42 KB) Additional Information: full citation, abstract, references, index terms

The key source of raw data in most biomedical research is the patient's medical record. The hospital patient medical record is most commonly thought of as the repository for all pertinent facts relating to laboratory test results, diagnostic conclusions, treatment procedures, and observations. Depending on the nature of the patient's complaint, there are varying amounts of medical history information incorporated into the record. In many instances, the compilation of the record has become s ...

11 On becoming virtual: the driving forces and arrangements
Magid Igbaria, Conrad Shayo, Lorne Olfman
April 1999 **Proceedings of the 1999 ACM SIGCPR conference on Computer personnel research**

Full text available: pdf(1.80 MB) Additional Information: full citation, references, index terms

Keywords: telework, virtual communities, virtual organizations, virtual society, virtual teams

12 Special issue on learning from imbalanced datasets: Mining with rarity: a unifying framework
Gary M. Weiss
June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available: pdf(182.31 KB) Additional Information: full citation, abstract, references, citings

Rare objects are often of great interest and great value. Until recently, however, rarity has not received much attention in the context of data mining. Now, as increasingly complex real-world problems are addressed, rarity, and the related problem of imbalanced data, are taking center stage. This article discusses the role that rare classes and rare cases play in data mining. The problems that can result from these two forms of rarity are described in detail, as are methods for addressing these ...

Keywords: class imbalance, cost-sensitive learning, inductive bias, rare cases, rare classes, sampling, small disjuncts

13 Turmoil at NASA, and numerous funding announcements
Xiaolei Qian
September 1995 **ACM SIGMOD Record**, Volume 24 Issue 3

Full text available: pdf(115.95 KB) Additional Information: full citation, abstract, index terms

Since the last issue of this column six months ago, there have been many interesting program announcements, some of which have already passed deadline. We'll go over these announcements anyway, with the hope that they can get the readers better prepared for future funding opportunities. But first, we'll talk about the continuing budget battle at Congress, and the recent turmoil at NASA.

14 Computer aides to medical diagnosis—problems and progress
Stephen R. Yarnall, Richard A. Kronmal
July 1966 **Communications of the ACM**, Volume 9 Issue 7

Full text available: pdf(654.43 KB) Additional Information: full citation

15 Man/machine communications in the biological medical research environment
W. E. Farley, A. H. Pulido, T. M. Minckler, L. D. Cady
July 1966 **Communications of the ACM**, Volume 9 Issue 7

Full text available: pdf(654.43 KB) Additional Information: full citation

16 Engineering, medical and scientific applications
G. H. Kuby
July 1966 **Communications of the ACM**, Volume 9 Issue 7

Full text available:

pdf(654.43 KB) Additional Information: full citation

17 META5: A tool to manipulate strings of data
David K. Oppenheim, Dan P. Haggerty
July 1966 **Communications of the ACM**, Volume 9 Issue 7
Full text available: pdf(654.43 KB) Additional Information: full citation

18 A real-time error correcting data transmission system treated as a Markov process
Frank T. Kuhn
July 1966 **Communications of the ACM**, Volume 9 Issue 7
Full text available: pdf(654.43 KB) Additional Information: full citation

19 Lunar orbiter command and telemetry data handling system (CTDH) at deep space stations
I. Holgersen, E. Knutson, D. R. Merrill
July 1966 **Communications of the ACM**, Volume 9 Issue 7
Full text available: pdf(654.43 KB) Additional Information: full citation

20 A special purpose multiprogramming system for a computer-controlled telemetry data reduction system
Harold R. Gillette
July 1966 **Communications of the ACM**, Volume 9 Issue 7
Full text available: pdf(654.43 KB) Additional Information: full citation

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1 Special issue on learning from imbalanced datasets: A study of the behavior of several methods for balancing machine learning training data ■

Gustavo E. A. P. A. Batista, Ronaldo C. Prati, Maria Carolina Monard

June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available: pdf(314.77 KB) Additional Information: full citation, abstract, references, citings

There are several aspects that might influence the performance achieved by existing learning systems. It has been reported that one of these aspects is related to class imbalance in which examples in training data belonging to one class heavily outnumber the examples in the other class. In this situation, which is found in real world data describing an infrequent but important event, the learning system may have difficulties to learn the concept related to the minority class. In this work we per ...

2 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus ■

Jim Warren

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface**, Volume 23 Issue 5

Full text available: pdf(843.80 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms, review

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3 Special section on data mining for intrusion detection and threat analysis: Data mining-based intrusion detectors: an overview of the columbia IDS project ■

Salvatore J. Stolfo, Wenke Lee, Philip K. Chan, Wei Fan, Eleazar Eskin

December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

4 Special issue on learning from imbalanced datasets: Minority report in fraud detection: ■

classification of skewed data
Clifton Phua, Damminda Alahakoon, Vincent Lee
June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1
Full text available: pdf(262.38 KB) Additional Information: full citation, abstract, references, citings

This paper proposes an innovative fraud detection method, built upon existing fraud detection research and *Minority Report*, to deal with the data mining problem of skewed data distributions. This method uses backpropagation (BP), together with naive Bayesian (NB) and C4.5 algorithms, on data partitions derived from minority oversampling with replacement. Its originality lies in the use of a single meta-classifier (stacking) to choose the best base classifiers, and then combine these base ...

Keywords: fraud detection, meta-learning, multiple classifier systems

5 Image and video digital libraries: Semantic video classification and feature subset selection under context and concept uncertainty
Jianping Fan, Hangzai Luo, Jing Xiao, Lide Wu
June 2004
Full text available: pdf(258.04 KB) Additional Information: full citation, abstract, references, index terms

As large collections of videos become one key component of digital libraries, there is an urgent need of semantic video classification and feature subset selection to enable more effective video database organization and retrieval. However, most existing techniques for classifier training require a large number of labeled samples to learn correctly and suffer from the problems of context and concept uncertainty when only a limited number of labeled samples are available. To address the problems ...

Keywords: adaptive EM algorithm, context and concept uncertainty, semantic video classification, unlabeled samples

6 A Bayesian decision model for cost optimal record matching
V. S. Verykios, G. V. Moustakides, M. G. Elfeky
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1
Full text available: pdf(180.87 KB) Additional Information: full citation, abstract, index terms

In an error-free system with perfectly clean data, the construction of a global view of the data consists of linking - in relational terms, joining - two or more tables on their key fields. Unfortunately, most of the time, these data are neither carefully controlled for quality nor necessarily defined commonly across different data sources. As a result, the creation of such a global data view resorts to approximate joins. In this paper, an optimal solution is proposed for the matching or the lin ...

Keywords: Cost optimal statistical model, Data cleaning, Record linkage

7 Rule-based machine learning of spatial data concepts
Steve Stearns, Daniel C. St. Clair
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(730.02 KB) Additional Information: full citation, references, index terms

Keywords: AQ15, classification, expert systems, geographic information systems, machine learning

8 Special issue on learning from imbalanced datasets: Mining with rarity: a unifying framework
Gary M. Weiss
June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1
Full text available: pdf(182.31 KB) Additional Information: full citation, abstract, references, citings

Rare objects are often of great interest and great value. Until recently, however, rarity has not received much attention in the context of data mining. Now, as increasingly complex real-world problems are addressed, rarity, and the related problem of imbalanced data, are taking center stage. This article discusses the role that rare classes and rare cases play in data mining. The problems that can result from these two forms of rarity are described in detail, as are methods for addressing these ...

Keywords: class imbalance, cost-sensitive learning, inductive bias, rare cases, rare classes, sampling, small disjuncts

9 Data transformation and duplicate detection: A generalized cost optimal decision model for record matching
Vassilios S. Verykios, George V. Moustakides
June 2004 **Proceedings of the 2004 international workshop on Information quality in information systems**
Full text available: pdf(118.81 KB) Additional Information: full citation, abstract, references

Record (or entity) matching or linkage is the process of identifying records in one or more data sources, that refer to the same real world entity or object. In record linkage, the ultimate goal of a decision model is to provide the decision maker with a tool for making decisions upon the actual matching status of a pair of records (i.e., documents, events, persons, cases, etc.). Existing models of record linkage rely on decision rules that minimize the probability of subjecting a case to cleric ...

Keywords: probabilistic decision model, record matching

10 Special issue on the fusion of domain knowledge with data for decision support: Preference elicitation via theory refinement
Peter Haddawy, Vu Ha, Angelo Restificar, Benjamin Geisler, John Miyamoto
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(150.88 KB) Additional Information: full citation, abstract, references, citings, index terms

We present an approach to elicitation of user preference models in which assumptions can be used to guide but not constrain the elicitation process. We demonstrate that when domain knowledge is available, even in the form of weak and somewhat inaccurate assumptions, significantly less data is required to build an accurate model of user preferences than when no domain knowledge is provided. This approach is based on the KBANN (Knowledge-Based Artificial Neural Network) algorithm pioneered by Shav ...

11 Automated learning of decision rules for text categorization
Chidanand Apté, Fred Damerau, Sholom M. Weiss
July 1994 **ACM Transactions on Information Systems (TOIS)**, Volume 12 Issue 3
Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe the results of extensive experiments using optimized rule-based induction methods on large document collections. The goal of these methods is to discover automatically classification patterns that can be used for general document categorization or personalized filtering of free text. Previous reports indicate that human-engineered rule-based systems, requiring many man-years of developmental efforts, have been successfully built to "read" documents and assign topics ...

12 A hierarchical access control model for video database systems
Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2
Full text available: pdf(6.27 MB) Additional Information: full citation, abstract, references, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

13 QProber: A system for automatic classification of hidden-Web databases
Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Full text available: pdf(3.62 MB) Additional Information: full citation, abstract, references, index terms

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

14 A review of vessel extraction techniques and algorithms
Cemil Kirbas, Francis Quek
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Full text available: pdf(8.06 MB) Additional Information: full citation, abstract, references, index terms

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

15 Improving SVM accuracy by training on auxiliary data sources
Pengcheng Wu, Thomas G. Dietterich

July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(263.65 KB) Additional Information: full citation, abstract, references

The standard model of supervised learning assumes that training and test data are drawn from the same underlying distribution. This paper explores an application in which a second, auxiliary, source of data is available drawn from a different distribution. This auxiliary data is more plentiful, but of significantly lower quality, than the training and test data. In the SVM framework, a training example has two roles: (a) as a data point to constrain the learning process and (b) as a candidate su ...

16 Applications of machine learning and rule induction

Pat Langley, Herbert A. Simon

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(554.28 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine learning is the study of computational methods for improving performance by mechanizing the acquisition of knowledge from experience. Expert performance requires much domain-specific knowledge, and knowledge engineering has produced hundreds of AI expert systems that are now used regularly in industry. Machine learning aims to provide increasing levels of automation in the knowledge engineering process, replacing much time-consuming human activity with automatic tec ...

17 Industrial/government track: Clinical and financial outcomes analysis with existing hospital patient records

R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(188.40 KB) Additional Information: full citation, abstract, references, index terms

Existing patient records are a valuable resource for automated outcomes analysis and knowledge discovery. However, key clinical data in these records is typically recorded in unstructured form as free text and images, and most structured clinical information is poorly organized. Time-consuming interpretation and analysis is required to convert these records into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present REMIND, a Bayesian Framework for Reliable ...

Keywords: Bayes Nets, HMMs, data mining, temporal reasoning

18 Fuzzy rule extraction from GIS data with a neural fuzzy system for decision making

Ding Zheng, Wolfgang Kainz

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Full text available: pdf(1.07 MB) Additional Information: full citation, references, index terms

Keywords: GIS, decision-making, fuzzy rule inference, neural network

19 Privacy of medical records: IT implications of HIPAA

David Baumer, Julia Brande Earp, Fay Cobb Payton

December 2000 **ACM SIGCAS Computers and Society**, Volume 30 Issue 4

Full text available: pdf(819.71 KB) Additional Information: full citation, abstract

Increasingly, medical records are being stored in computer databases that allow for efficiencies in providing treatment and in the processing of clinical and financial services. Computerization of medical records has also diminished patient privacy and, in particular, has increased the potential for misuse, especially in the form of nonconsensual secondary use of personally identifiable records. Organizations that store and use medical records have had to establish security measures, prompted pa ...

20 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown
December 2000 **Computational Linguistics**, Volume 26 Issue 4

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references
Publisher Site

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

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1 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

2 A review of vessel extraction techniques and algorithms

Cemil Kirbas, Francis Quek

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Full text available: pdf(8.06 MB) Additional Information: full citation, abstract, references, index terms

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

3 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Additional Information:

Full text available: pdf(6.37 MB) full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

4 Machine learning in automated text categorization
Fabrizio Sebastiani
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

5 A hierarchical access control model for video database systems
Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2

Full text available: pdf(6.27 MB) Additional Information: full citation, abstract, references, index terms

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6 Rule-based machine learning of spatial data concepts
Steve Stearns, Daniel C. St. Clair
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(730.02 KB) Additional Information: full citation, references, index terms

Keywords: AQ15, classification, expert systems, geographic information systems, machine learning

7 Automated learning of decision rules for text categorization

Chidanand Apté, Fred Damerau, Sholom M. Weiss
July 1994 **ACM Transactions on Information Systems (TOIS)**, Volume 12 Issue 3

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe the results of extensive experiments using optimized rule-based induction methods on large document collections. The goal of these methods is to discover automatically classification patterns that can be used for general document categorization or personalized filtering of free text. Previous reports indicate that human-engineered rule-based systems, requiring many man-years of developmental efforts, have been successfully built to "read" documents and assign topics ...

8 Model-based recognition in robot vision
Roland T. Chin, Charles R. Dyer
March 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 1

Full text available: pdf(4.94 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a comparative study and survey of model-based object-recognition algorithms for robot vision. The goal of these algorithms is to recognize the identity, position, and orientation of randomly oriented industrial parts. In one form this is commonly referred to as the "bin-picking" problem, in which the parts to be recognized are presented in a jumbled bin. The paper is organized according to 2-D, 2½-D, and 3-D object representations, which are used as the basis for ...

9 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB)
html(2.78 KB) Additional Information: full citation, references, citings, index terms

10 An efficient boosting algorithm for combining preferences
Yoav Freund, Raj Iyer, Robert E. Schapire, Yoram Singer
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(392.20 KB) Additional Information: full citation, abstract, index terms

We study the problem of learning to accurately rank a set of objects by combining a given collection of ranking or preference functions. This problem of combining preferences arises in several applications, such as that of combining the results of different search engines, or the "collaborative-filtering" problem of ranking movies for a user based on the movie rankings provided by other users. In this work, we begin by presenting a formal framework for this general problem. We then describe and ...

11 Improving SVM accuracy by training on auxiliary data sources
Pengcheng Wu, Thomas G. Dietterich
July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(263.65 KB) Additional Information: full citation, abstract, references

The standard model of supervised learning assumes that training and test data are drawn from the same underlying distribution. This paper explores an application in which a second, auxiliary, source of data is available drawn from a different distribution. This auxiliary data is more plentiful, but of significantly lower quality, than the training and test data. In the SVM framework, a training example has two roles: (a) as a data point to constrain the learning process and (b) as a candidate su ...

12 Poster papers: Tumor cell identification using features rules
Bin Fang, Wynne Hsu, Mong Li Lee
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(152.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Advances in imaging techniques have led to large repositories of images. There is an increasing demand for automated systems that can analyze complex medical images and extract meaningful information for mining patterns. Here, we describe a real-life image mining application to the problem of tumour cell counting. The quantitative analysis of tumour cells is fundamental to characterizing the activity of tumour cells. Existing approaches are mostly manual, time-consuming and subjective. Efforts t ...

Keywords: dynamic water immersion, features rules, identification, local adaptive thresholding, majority vote, meta classifier, weighted vote

13 Trading MIPS and memory for knowledge engineering
Robert H. Creecy, Brij M. Masand, Stephen J. Smith, David L. Waltz
August 1992 **Communications of the ACM**, Volume 35 Issue 8
Full text available: pdf(7.46 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: automated system building, case-based reasoning, empirical learning, memory-based reasoning, textual database classification

14 Three-dimensional medical imaging: algorithms and computer systems
M. R. Stytz, G. Frieder, O. Frieder
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4
Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

15 Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, index terms

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Keywords: Face recognition, person identification

16
A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

17 Model selection via the AUC

Saharon Rosset
July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(237.64 KB) Additional Information: full citation, abstract, references

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Pat Langley, Herbert A. Simon
November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(554.28 KB) Additional Information: full citation, abstract, references, citings, index terms, review

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19 Theory of keyblock-based image retrieval

April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, index terms, review

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

20 Hierarchical classification of Web content

Susan Dumais, Hao Chen
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: Additional Information: full citation, abstract, references, citings, index pdf(1.16 MB) terms

This paper explores the use of hierarchical structure for classifying a large, heterogeneous collection of web content. The hierarchical structure is initially used to train different second-level classifiers. In the hierarchical case, a model is learned to distinguish a second-level category from other categories within the same top level. In the flat non-hierarchical case, a model distinguishes a second-level category from all other second-level categories. Scoring rules can further take ad ...

Keywords: Web hierarchies, classification, hierarchical models, machine learning, support vector machines, text catergorization, text classification

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Fabrizio Sebastiani

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August 1992 **Communications of the ACM**, Volume 35 Issue 8

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8 Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

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Cemil Kirbas, Francis Quek
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
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Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurosvascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

12 Computational strategies for object recognition
Paul Suetens, Pascal Fua, Andrew J. Hanson
March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1
Full text available: pdf(6.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

13 Class prediction and discovery using gene expression data
Donna K. Slonim, Pablo Tamayo, Jill P. Mesirov, Todd R. Golub, Eric S. Lander
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14 Multi Relational Data Mining (MRDM): Multi-relational data mining: an introduction
Sašo Džeroski
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1
Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings

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20 Extracting predicates from mining models for efficient query evaluation
Surajit Chaudhuri, Vivek Narasayya, Sunita Sarawagi
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18 A survey of methods for recovering quadrics in triangle meshes

Sylvain Petitjean

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(3.91 MB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

19 Fuzzy measures in inductive reasoning

DongHui Li, François E. Cellier

December 1990 **Proceedings of the 22nd conference on Winter simulation**

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20 Evaluating collaborative filtering recommender systems

Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl

January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

Full text available: pdf(253.92 KB) Additional Information: full citation, abstract, references, index terms

Recommender systems have been evaluated in many, often incomparable, ways. In this article, we review the key decisions in evaluating collaborative filtering recommender systems: the user tasks being evaluated, the types of analysis and datasets being used, the ways in which prediction quality is measured, the evaluation of prediction attributes other than quality, and the user-based evaluation of the system as a whole. In addition to reviewing the evaluation strategies used by prior researchers ...

Keywords: Collaborative filtering, evaluation, metrics, recommender systems

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4 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB) Additional Information: full citation, abstract, references, index terms

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Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy
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Full text available: pdf(3.83 MB) Additional Information: full citation, references, citings, index terms

7 Trading MIPS and memory for knowledge engineering
Robert H. Creecy, Brij M. Masand, Stephen J. Smith, David L. Waltz
August 1992 **Communications of the ACM**, Volume 35 Issue 8

Full text available: pdf(7.46 MB) Additional Information: full citation, references, citings, index terms, review

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8 Applications of machine learning and rule induction
Pat Langley, Herbert A. Simon
November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available: pdf(554.28 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine learning is the study of computational methods for improving performance by mechanizing the acquisition of knowledge from experience. Expert performance requires much domain-specific knowledge, and knowledge engineering has produced hundreds of AI expert systems that are now used regularly in industry. Machine learning aims to provide increasing levels of automation in the knowledge engineering process, replacing much time-consuming human activity with automatic tec ...

9 A survey of image registration techniques
Lisa Gottesfeld Brown
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(5.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching

10 Multi Relational Data Mining (MRDM): Multi-relational data mining: an introduction
Sašo Džeroski
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings

Data mining algorithms look for patterns in data. While most existing data mining approaches look for patterns in a single data table, multi-relational data mining (MRDM) approaches look for patterns that involve multiple tables (relations) from a relational database. In recent years, the most common types of patterns and approaches considered in data mining have been extended to the multi-relational case and MRDM now encompasses multi-relational (MR) association rule discovery, MR decision tree ...

Keywords: inductive logic programming, multi-relational data mining, relational association rules, relational data mining, relational decision trees, relational distance-based methods

11 Extracting predicates from mining models for efficient query evaluation
Surajit Chaudhuri, Vivek Narasayya, Sunita Sarawagi
September 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 3

Full text available: pdf(698.37 KB) Additional Information: full citation, abstract, references, index terms

Modern relational database systems are beginning to support ad hoc queries on mining models. In this article, we explore novel techniques for optimizing queries that contain predicates on the results of application of mining models to relational data. For such queries, we use the internal structure of the mining model to automatically derive traditional database predicates. We present algorithms for deriving such predicates for a large class of popular discrete mining models: decision trees, nai ...

Keywords: Complex predicate optimization, simpler rules from complex predictive functions

12 Efficient reasoning
Russell Greiner, Christian Darken, N. Iwan Santoso
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(445.41 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient

Keywords: efficiency trade-offs, soundness/completeness/expressibility

13 Model selection via the AUC
Saharon Rosset
July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(237.64 KB) Additional Information: full citation, abstract, references

We present a statistical analysis of the AUC as an evaluation criterion for classification scoring models. First, we consider significance tests for the difference between AUC scores of two algorithms on the same test set. We derive exact moments under simplifying assumptions and use them to examine approximate practical methods from the literature. We then compare AUC to empirical misclassification error when the prediction goal is to *minimize future error rate.* We show that the AUC may ...

14 A survey of methods for recovering quadrics in triangle meshes
Sylvain Petitjean
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(3.91 MB) Additional Information: full citation, abstract, references, citings, index terms

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

15 Class prediction and discovery using gene expression data
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April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**

Full text available: pdf(858.00 KB) Additional Information: full citation, abstract, references, citings

Classification of patient samples is a crucial aspect of cancer diagnosis and treatment. We present a method for classifying samples by computational analysis of gene expression data. We consider the classification problem in two parts: *class discovery* and *class prediction*. Class discovery refers to the process of dividing samples into reproducible classes that have similar behavior or properties, while class prediction places new samples into already known classes. We describe ...

16 Tissue classification with gene expression profiles
Amir Ben-Dor, Laurakay Bruhn, Nir Friedman, Iftach Nachman, Michèl Schummer, Zohar Yakhini
April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**

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17 Fuzzy measures in inductive reasoning
DongHui Li, François E. Cellier
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(1.31 MB) Additional Information: full citation, references, citings, index terms

18 Evaluating collaborative filtering recommender systems
Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl
January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1
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Recommender systems have been evaluated in many, often incomparable, ways. In this article, we review the key decisions in evaluating collaborative filtering recommender systems: the user tasks being evaluated, the types of analysis and datasets being used, the ways in which prediction quality is measured, the evaluation of prediction attributes other than quality, and the user-based evaluation of the system as a whole. In addition to reviewing the evaluation strategies used by prior researchers ...

Keywords: Collaborative filtering, evaluation, metrics, recommender systems

19 Discovering models of software processes from event-based data
Jonathan E. Cook, Alexander L. Wolf
July 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 3
Full text available: pdf(369.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

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Keywords: Balboa, process discovery, software process, tools

20 Octrees for faster isosurface generation
Jane Wilhelms, Allen Van Gelder
July 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 3
Full text available: pdf(5.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The large size of many volume data sets often prevents visualization algorithms from providing interactive rendering. The use of hierarchical data structures can ameliorate this problem by storing summary information to prevent useless exploration of regions of little or no current interest within the volume. This paper discusses research into the use of the octree hierarchical data structure when the regions of current interest can vary during the applicat ...

Keywords: hierarchical spatial enumeration, isosurface extraction, octree, scientific visualization

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3 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB)

Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed booming interest in the last 10 years, due to the increased availability of documents in digital forr the ensuing need to organize them. In the research community the dominant approach to this pro is based on machine learning techniques: a general inductive process automatically builds a classi learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

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Yoav Freund, Raj Iyer, Robert E. Schapire, Yoram Singer

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18 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms,

Database management systems will continue to manage large data volumes. Thus, efficient algori for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this pr On the contrary, modern data models exacerbate the problem: In order to manipulate large sets c complex objects as efficiently as today's database systems manipulate simple records, query-proc

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

19 On randomization in sequential and distributed algorithms
Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar
March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1
Full text available: pdf(8.01 MB) Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the d of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including:primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilisti systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

20 Octrees for faster isosurface generation
Jane Wilhelms, Allen Van Gelder
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